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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/678,506	
			Filing Date	October 2, 2003	
			First Named Inventor	Richard J. Melker	
			Group Art Unit	1743	
			Examiner Name	Not yet assigned	
Sheet	1	of	1	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
JAD	U1	US 2003/0059820		Vo-Dinh	03-27-2003	
JAD	U2	US 2003/0139681		Melker <i>et al.</i>	07-24-2003	
JAD	U3	US 2003/0119065		Lin <i>et al.</i>	06-26-2003	
	U4					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Code <sup>5</sup> Office <sup>3</sup> known)	Number <sup>4</sup>	Kind (if known)				
JAD	F1		WO 2004/065404		University of Florida Research Foundation	08-05-2004		
JAD	F2		WO 03/016901		Samsung Electronics Co., Ltd.	02-27-2003		
JAD	F3		WO 02/079514		The Trustees of Boston College	10-10-2002		
	F4							

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JAD	R1	HONG C. <i>et al.</i> , "Carbon Nanotube-Enhanced Electrochemical DNA Biosensor for DNA Hybridization Detection" (2003), <i>Anal. Bioanal. Chem.</i> , 375:287-293.	
JAD	R2	PANTAROTTO D. <i>et al.</i> , "Synthesis, Structural Characterization, and Immunological Properties of Carbon Nanotubes Functionalized with Peptides" (2003), <i>J. Am. Chem. Soc.</i> , 125:6160-6164.	

Examiner Signature	<i>Jackie DR</i>	Date Considered	5-11-05
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Sheet	1	of	6	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
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JAD	U1	US-3,567,029	03-02-1971	Quame	All
JAD	U2	US-3,608,546	09-28-1971	Shinn	All
JAD	U3	US-3,877,291	4-15-1975	Hoppesch <i>et al.</i>	All
JAD	U4	US-3,955,926	5-11-1976	Fischer	All
JAD	U5	US-4,202,352	05-13-1980	Osborn	All
JAD	U6	US-4,312,228	1-26-1982	Wohljen	All
JAD	U7	US-4,334,540	6-15-1982	Preti <i>et al.</i>	All
JAD	U8	US-4,361,026	11-30-1982	Muller <i>et al.</i>	All
JAD	U9	US-4,349,626	9-14-1982	Labows <i>et al.</i>	All
JAD	U10	US-4,399,686	8-23-1983	Kindlund <i>et al.</i>	All
JAD	U11	US-4,534,360	8-13-1985	Williams	All
JAD	U12	US-4,734,777	3-29-1988	Okino <i>et al.</i>	All
JAD	U13	US-4,772,559	9-20-1998	Preti <i>et al.</i>	All

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
JAD	F1	DE	19607646 (abstract in English)	A1	Muehlenberg <i>et al.</i>	09-11-1997	All	
JAD	F2	WO	98/57145		Quadrivium, L.L.C.	12-17-1998	All	
JAD	F3	WO	00/79243	A1	Cyrano Sciences, INC.	12-28-2000	All	

Examiner Signature	Jackie D. Panico	Date Considered	5-12-05
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		First Named Inventor	Richard J. Melker		
		Art Unit	1743		
		Examiner Name			
Sheet	2	of	6	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
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JAD	U14	US-4,895,017	1-23-1990	Pyke <i>et al.</i>	All (SAW)
JAD	U15	US-4,938,928	7-03-1990	Koda <i>et al.</i>	All
JAD	U16	US-4,992,244	2-12-1991	Grate	All
JAD	U17	US-5,034,192	7-23-1991	Wrighton <i>et al.</i>	All
JAD	U18	US-5,042,501	8-27-1991	Kenny <i>et al.</i>	All
JAD	U19	US-5,060,506	10-29-1991	Douglas	All
JAD	U20	US-5,071,770	12-10-1991	Kolesar, Jr.	All
JAD	U21	US-5,081,871	1-21-1992	Glaser	All
JAD	U22	US-5,137,692	8-11-1992	Fritz	All
JAD	U23	US-5,145,645	9-08-1992	Zakin <i>et al.</i>	All
JAD	U24	US-5,179,027	01-12-1993	Fisher	All
JAD	U25	US-5,252,292	10-12-1993	Hirata <i>et al.</i>	All
JAD	U26	US-5,325,704	7-05-1994	Mariani <i>et al.</i>	All (SAW)
JAD	U27	US-5,351,522	10-04-1994	Lura	All
JAD	U28	US-5,482,601	1-09-1996	Ohshima <i>et al.</i>	All (NAND)
JAD	U29	US-5,528,924	6-25-1996	Wajid <i>et al.</i>	All (SAW)
JAD	U30	US-5,547,878	8-20-1996	Kell	All
JAD	U31	US-5,605,612	2-25-1997	Park <i>et al.</i>	All
JAD	U32	US-5,645,072	7-08-1997	Thrall <i>et al.</i>	All
JAD	U33	US-5,756,879	5-26-1998	Yamagishi <i>et al.</i>	All

Examiner Signature	<i>Jackie DQ</i>	Date Considered	5-12-05
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			Examiner Name		
Sheet	3	of	6	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
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AD	U34	US-5,783,154	7-21-1998	Althainz <i>et al.</i>	All
AD	U35	US 5,783,449	7-21-1998	Kuznetsov	All
AD	U36	US-5,830,412	11-03-1998	Kimura <i>et al.</i>	All
AD	U37	US-5,861,254	1-19-1999	Schneider <i>et al.</i>	All <i>See</i>
AD	U38	US-5,900,552	5-04-1999	Chu <i>et al.</i>	All
AD	U39	US-5,918,257	6-29-1999	Mifsud <i>et al.</i>	All
AD	U40	US-5,945,069	8-31-1999	Buehler	All
AD	U41	US-5,950,630	9-14-1999	Portwood <i>et al.</i>	All
AD	U42	US-5,954,685	9-21-1999	Tiemey	All
AD	U43	US-5,971,937	10-26-1999	Ekstrom	All
AD	U44	US-5,996,586	12-07-1999	Phillips	All
AD	U45	US-6,010,459	1-04-2000	Silkoff <i>et al.</i>	All
AD	U46	US-6,057,162	5-02-2000	Rounbehler <i>et al.</i>	All
AD	U47	US-6,063,243	5-16-2000	Zettl <i>et al.</i>	All <i>new</i>
AD	U48	US-6,067,167	5-23-2000	Atkinson <i>et al.</i>	All
AD	U49	US-6,085,576	7-11-2000	Sunshine <i>et al.</i>	All
AD	U50	US-6,136,801	10-24-2000	Kell	All
AD	U51	US-6,153,147	11-28-2000	Craig	All
AD	U52	US-6,190,858 B1	2-20-2001	Persaud <i>et al.</i>	All
AD	U53	US-6,203,814 B1	3-20-2001	Fisher <i>et al.</i>	All
AD	U54	US-6,221,026 B1	4-24-2001	Phillips	All

Examiner Signature	<i>Jackie Drano</i>	Date Considered	5-12-05
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U.S. PATENT DOCUMENTS					
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JAD	U55	US-6,244,096	6-12-2001	Lewis <i>et al.</i>	All
JAD	U56	US-6,248,078 B1	6-19-2001	Risby <i>et al.</i>	All
JAD	U57	US-6,261,783 B1	7-17-2001	Jayasena <i>et al.</i>	All
JAD	U58	US-6,303,316 B1	10-16-2001	Kiel <i>et al.</i>	All
JAD	U59	US-6,305,212	10-23-2001	Drzewiecki	All
JAD	U60	US-6,312,390 B1	11-06-2001	Phillips	All
JAD	U61	US-6,319,724	11-20-2001	Lewis <i>et al.</i>	All
JAD	U62	US-6,363,772 B1	4-02-2002	Berry	All
JAD	U63	US-6,387,329 B1	5-14-2002	Lewis <i>et al.</i>	All
JAD	U64	US-6,399,302 B1	6-04-2002	Lannigan <i>et al.</i>	All
JAD	U65	US-6,479,019 B1	11-12-2002	Goldstein <i>et al.</i>	All
JAD	U66	US-6,495,824	12-17-2002	Atkinson	All
JAD	U67	US 2001/0046674 A1	11-29-2001	Ellington	All
JAD	U68	US 2002/0007249 A1	1-17-2002	Cranley <i>et al.</i>	All
JAD	U69	US 2002/0068295	6-06-2002	Madou <i>et al.</i>	All
JAD	U70	US 2002/0034757	3-21-2002	Cubiciotti	All

Examiner Signature	<i>Jackie D. Plante</i>	Date Considered	5-12-05
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
JAD	R1	BALLANTINE, DS. <i>et al.</i> "Surface Acoustic Wave Devices for Chemical Analysis," <i>Anal. Chem.</i> (1989), Volume 61, number 11, pages 704A-712A.		
JAD	R2	BRODY, EN. <i>et al.</i> "Aptamers as Therapeutic and Diagnostic Agents," <i>Reviews in Molecular Biotechnology</i> (2000), Volume 74, pages 5-13.		
JAD	R3	BRODY <i>et al.</i> "The use of Aptamers in Large Arrays for Molecular Diagnostics," <i>Molecular Diagnosis</i> (1999), Volume 4, number 4, pages 3811-388.		
JAD	R4	CHANDIOK, S. <i>et al.</i> "Screening for Bacterial Vaginosis: A Novel Application of Artificial Nose Technology," <i>Journal of Clinical Pathology</i> (1997), Volume 50, pages 790-791.		
JAD	R5	FANG, M. <i>et al.</i> "Detection of Organic Chemicals by SAW Sensor Array," <i>Sensors and Actuators</i> (1999), Volume B56, pages 155-157.		
JAD	R6	FISCHER <i>et al.</i> "A man-portable chemical sniffer utilizing Novel Fluorescent polymers for detection of ultra-trace concentrations of explosives emanating from landmines," <i>Nomadics Inc.</i> (2000), PAGES 1-10.		
JAD	R7	GANGA-ZANDZOU, P.S. <i>et al.</i> "A 13C-urea breath test in children with Helicobacter pylori infection: validity of the use of a mask to collect exhaled breath sample," <i>Acta. Paediatr.</i> (2001), Volume 90, pages 232-233.		
JAD	R8	GRATE, JW <i>et al.</i> "Determination of Partition Coefficients from Surface Acoustic Wave Vapor Sensor Responses and Correlation with Gas-Liquid Chromatographic Partition Coefficients," <i>Anal. Chem.</i> (1998), Volume 60, pages 869-875.		
JAD	R9	GROVES, W. <i>et al.</i> "Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator absorbent," <i>Analytica Chimica Acta</i> (1998), Volume 371, pages 131-143.		
JAD	R10	HANSON, C.W. <i>et al.</i> "The use of a novel 'Electronic Nose' to diagnose the presence of intrapulmonary infection," <i>Anesthesiology</i> (1997), Volume 87, number 3A, abstract A269.		
JAD	R11	LIEBICH <i>et al.</i> "Volatile Substances in Blood Serum: a Profile Analysis and Quantitative Determination," <i>Journal of Chromatography</i> (1977), Volume 142, pages 505-516.		

Examiner Signature	<i>Jadric PR</i>	Date Considered	5-11-05
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

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First Named Inventor	Richard J. Melker
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	UF-378C1

Sheet

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of

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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS); title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JAD	R12	MUELLER <i>et al.</i> "Experience in mass spectrometric identification in acute poisoning," <i>Beitr. Diagn. Ther. Akuter. Intox., Vortr. Symp.</i> 4 <sup>th</sup> (1982), pages 126-134, ABSTRACT ONLY.	
JAD	R13	PARRY, A.D. <i>et al.</i> "Leg Ulcer Odour Detection Identifies $\beta$ -haemolytic Streptococcal Infection," <i>Journal of Wound Care</i> (1995), Volume 4, number 9, pages 404-406.	
JAD	R14	PAVIOU and TURNER. "Sniffing out the truth: Clinical Diagnosis Using the Electronic Nose," <i>Clin. Chem. Lab. Med.</i> (2000), Volume 38, number 2, pages 99-112.	
JAD	R15	PERRI, F. "Diagnosis of <i>Helicobacter pylori</i> infection: which is best? The urea breath test," <i>Dig. Liver. Dis.</i> (2000), Volume 32, Supp. 3, pages S196-198.	
JAD	R16	ROGERS <i>et al.</i> "Fiber-optic biosensors based on total internal-reflection fluorescence," <i>American Chemical Society</i> (1992), Ch. 13, pages 165-173.	
JAD	R17	STOJANOVIC <i>et al.</i> "Aptamer -based Folding Fluorescent Sensor for Cocaine," <i>J. Am. Chem. Soc.</i> (2001), Volume 123, pages 4928-4931.	
JAD	R18	TRACQUI, A. <i>et al.</i> "Systematic Toxicological Analysis Using HPLC/DAD," <i>Journal of Forensic Sciences</i> (1995), Volume 40, Number 2, pages 254-262.	
JAD	R19	WOHLTJEN, H. <i>et al.</i> "Vapor Detection with Surface Acoustic Wave Microsensors," <i>Chemical Sensors and Microinstrumentation</i> (1989), pages 157-175.	
	R20		
	R21		
	R22		

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/678,506	
			Filing Date	October 2, 2003	
			First Named Inventor	Richard J. Melker	
			Art Unit	1743	
Examiner Name					
Sheet	1	of	1	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
JAD	U1	US- 6,680,377 B1	01-20-2004	Stanton <i>et al.</i>	All
JAD	U2	US- 2002/0177232 A1	11-28-2002	Melker <i>et al.</i>	All
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	F1					
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Examiner Signature	Judie D. [Signature]	Date Considered	5-11-05
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